



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Mohammad JILAVI et al.

Confirmation No. : 3388

Appl No. : 10/591,598
(National Stage of PCT/EP2005/002795)

Group Art Unit : 1762

Examiner : not yet assigned

I. A. Filed : March 16, 2005

For : SCRATCH-RESISTANT OPTICAL MULTI-LAYER SYSTEM
APPLIED TO A CRYSTALLINE SUBSTRATE

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
U.S. Patent and Trademark Office
Customer Service Window, Mail Stop Amendment
Randolph Building
401 Dulany Street
Alexandria, VA 22314

Sir:

Pursuant to 37 C.F.R. § 1.56 and 37 C.F.R. §§ 1.97-1.98, Applicants hereby direct the Examiner's attention to the following documents cited in the International Search Report for International Application PCT/EP2005/002795, of which the above-referenced application is a National Stage:

- (1) U.S. Patent No. 5,858,526 (FLOCH et al.), January 12, 1999;
- (2) DE 196 13 645 A1, October 9, 1997;
- (3) U.S. Patent No. 6,236,493 B1 (SCHMIDT et al.), May 22, 2001; Applicants note that this document is a family member of document (2);
- (4) DE 198 23 732 A1, December 2, 1999;
- (5) U.S. Patent No. 6,455,103 B1 (MENNIG et al.), September 24, 2002; Applicants note that this document is a family member of document (4);

- (6) SCHMIDT et al., "Optical Materials by a Modified Sol-Gel Nanoparticle Process", Proceedings of SPIE, vol. 3943, 2000, pp.74-84;
- (7) MENNIG et al., "Interference Coatings on Glass Based on Photopolymerizable Nanomer Material", Thin Solid Films, vol. 351, 1999, pp. 99-102;
- (8) MENNIG et al., "Sol-Gel NIR-reflective Multilayer Coatings on Glass through UV-polymerizable Ceramic Nanoparticles", Mat. Res. Soc. Symp. Proc., vol. 576, 1999, pp. 415-421.

Applicants further direct the Examiner's attention to the following documents cited and discussed in the present application:

- (9) DE 1 941 191, January 14, 1971; Applicants note that this document is cited and discussed in the present application, beginning at page 1, line 12;
- (10) U.S. Patent No. 3,759,683 (DISLICH et al.), September 18, 1973; Applicants note that this document is a family member of document (9)
- (11) U.S. Patent No. 3,847,583 (DISLICH et al.), November 12, 1974; Applicants note that this document is a family member of documents (9) and (10);
- (12) OLIVEIRA et al. "Generation of Wet-chemical AR-coatings on Plastic Substrates by Use of Polymerizable Nanoparticles", SPIE, vol. 3136, 1997, pp. 452-461; Applicants note that this document is cited and discussed in the present application, beginning at page 1, line 24;
- (13) WO 99/61383 A1, December 2, 1999; Applicants note that this document is cited and discussed in the present application, beginning at page 1, line 32;


Applicants note that this document is a family member of documents (4) and (5).

Copies of the above-listed documents (with the exception of U.S. patents), the International Search Report (in English and German) and the International Preliminary Report on Patentability (in English) for International Application PCT/EP2005/002795 are enclosed together with a completed copy of the Form PTO-1449 listing these documents. Accordingly, the Examiner is requested to consider these documents and to indicate such consideration by returning a signed and initialed copy of the Form PTO-1449 with the next official communication.

Further to 37 C.F.R. §1.98 (a)(2)(ii), copies of the U.S. patents cited above are not enclosed herewith. However, if any copies are needed, the Examiner is respectfully requested to contact the undersigned.

Should there be any questions, the Examiner is invited to contact the undersigned at the telephone number listed below.

Respectfully submitted,
Mohammad JILAVI et al.


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FORM PTO-1449

U.S. Department of Commerce
Patent and Trademark OfficeAtty. Docket No.
P30581Application No.
10/591,598INFORMATION DISCLOSURE STATEMENT
BY APPLICANT

(Use several sheets if necessary)

Applicant
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March 16, 2005Group
1762

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	5 8 5 8 5 2 6	01/12/99	FLOCH et al.			
	6 2 3 6 4 9 3	05/22/01	SCHMIDT et al.			
	6 4 5 5 1 0 3	09/24/02	MENNIG et al.			
	3 7 5 9 6 8 3	09/18/73	DISLICH et al.			
	3 8 4 7 5 8 3	11/12/74	DISLICH et al.			

FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLASS	TRANSLATION YES NO
1	9 6 1 3 6 4 5	10/09/97	GERMANY			
	1 9 4 1 1 9 1	01/14/71	GERMANY			
99	/ 6 1 3 8 3	12/02/99	W.I.P.O			
1	9 8 2 3 7 3 2	12/02/99	GERMANY			

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

1	SCHMIDT et al., "Optical Materials by a Modified Sol-Gel Nanoparticle Process", Proceedings of SPIE, vol. 3943, 2000, pp. 74-84.
2	MENNIG et al., "Interference Coatings on Glass Based on Photopolymerizable Nanomer Material", Thin Solid Films, vol. 351, 1999, pp. 99-102.
3	MENNIG et al., "Sol-Gel NIR-reflective Multilayer Coatings on Glass through UV-polymerizable Ceramic Nanoparticles", Mat. Res. Soc. Symp. Proc., vol. 576, 1999, pp. 415-421.
4	OLIVEIRA et al. "Generation of Wet-chemical AR-coatings on Plastic Substrates by Use of Polymerizable Nanoparticles", SPIE, vol. 3136, 1997, pp. 452-461;

EXAMINER

DATE CONSIDERED

*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.